

A New Species of *Crotalaria* L. (Leguminosae) from Zhejiang Province, China

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A new species of *Crotalaria* L. (Leguminosae subfam. Papilionoideae), *C. tiantaiensis* Y. C. Jiang, X. Y. Zhu, Y. F. Du & H. Ohashi, is described and illustrated from Zhejiang Province, China.

Key words: China, *Crotalaria*, Leguminosae, new species, Zhejiang.

Chinese *Crotalaria* L. (Papilionoideae: Leguminosae) comprises 40 species with three varieties including six aliens (Yang 1998). While identifying specimens of *Crotalaria* in PE, the present authors found an unknown plant. It is remarkably small but bearing mature flower and fruit. It is most similar to *C. ferruginea* Grah. ex Benth., and also somewhat resembles *C. albida* Heyne ex Roth and *C. chinensis* L. in having unifoliolate leaves with narrowly oblong leaflets and a raceme. Differences between the new plant and these species are as follows:

The unknown plant differs from *Crotalaria ferruginea* in lacking stipules and in having smaller bracts ca. 1 mm long (2–4 mm long in *C. ferruginea*), standard with appressed hairs on the adaxial surface (glabrous in *C. ferruginea*) and keel-petals with appressed hairs at the base (glabrous in *C. ferruginea*). The unknown plant is smaller than *C. albida* and *C. chinensis*, 6–12 cm tall against 15–60 cm tall in *C. chinensis* and 25–70 cm tall in *C. albida* and it differs from

the latter in having leaves 4–10 mm long, 1–2 mm wide, with appressed, dense white papillae and rubiginous hairs (leaves 10–25 mm long, 5–12 mm wide with white hairs in *C. albida*; and 20–35 mm long, 4–10 mm wide with brown hairs in *C. chinensis*); standard ovate, ca. 5 mm long, ca. 3 mm wide (elliptical, 6–8 mm long in *C. albida*; and ovate or rounded, 7–9 mm long in *C. chinensis*); and pods 6–8 mm long (10–11 mm long in *C. albida*; and 8–12 mm long in *C. chinensis*). Moreover, the plant is distinct from *C. albida* in lacking stipules (stipules small, setaceous in *C. albida*) and in having racemes with 3–7 flowers (more than 20 flowers in *C. albida*). Also, it differs from *C. chinensis* in having shorter pedicels 1.5–2.0 mm long (2–4 mm long in *C. chinensis*). We consider, therefore, the plant represents a new species, although it is based only on two herbarium specimens.

Crotalaria tiantaiensis Y. C. Jiang, X. Y. Zhu, Y. F. Du & H. Ohashi, sp. nov.

[Fig. 1]

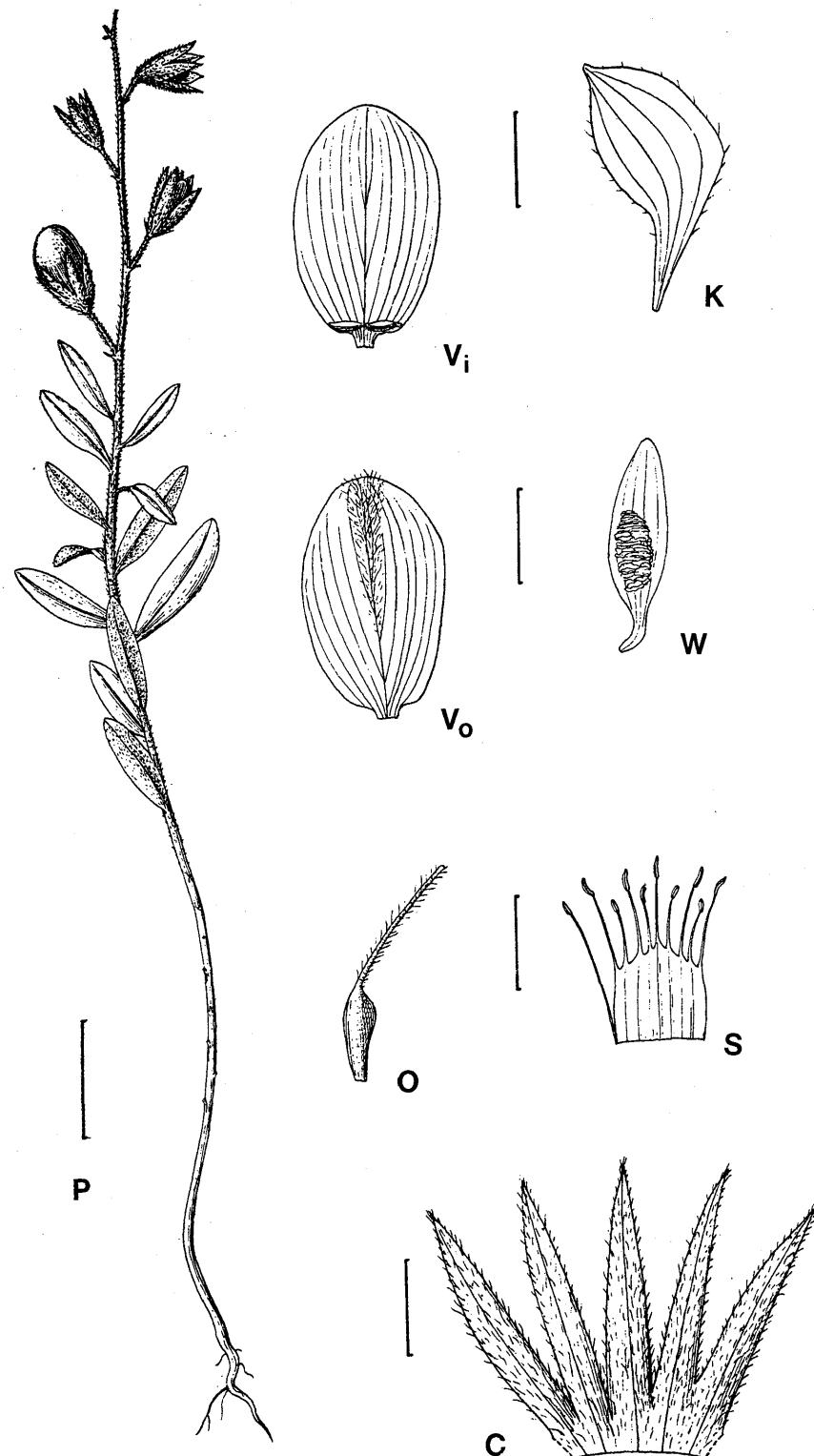


Fig. 1. *Crotalaria tiantaiensis* Y. C. Jiang, X. Y. Zhu, Y. F. Du & H. Ohashi. P. A whole plant. C. Calyx, V. Standard (V_i, adaxial surface; V_o, abaxial surface). W. Wing-petal (from inside). K. Keel-petal. O. Ovary. S. Stamens. All from holotype. Scale indicates 1 cm for p and 2 mm for others.

Haec species maxime simile *C. ferruginea* Grah. ex Benth., sed differt plantas minoribus, 6–12 cm altis, stipulis absenibus, bracteis minoribus, linearibus, ca. 1 mm longis, vexillo piloso in medio doso, carinis pilosis in base medio; a *C. albida* Heyne ex Roth et *C. chinensis* L. plantas minoribus, vexillo ovato minoribus 5 mm longo, 3 mm lato, leguminibus ellipsoidalibus minoribus.

Holotypus: China. Zhejiang, Tiantai. 10 September 1928. Unknown Collector 839 (PE).

Perennial herbs, 6–12 cm tall, with appressed rubiginous hairs. Leaves unifoliate, narrowly oblong, 4–10 mm long, 1–2 mm wide, with dense white papillae and appressed rubiginous hairs; petioles ca. 1 mm long; stipules absent. Racemes terminal, 1.5–3.5 cm long, with 3–7 flowers; calyx subcampanulate, 5–6 mm long, teeth 5, ovate-lanceolate, 4–5 mm long, with appressed rubiginous hairs, with distinct veins, ciliate along margins; bracts small, linear, ca. 1 mm long, persistent; bracteoles linear, ca. 1.5 mm long; pedicels 1.5–2.0 mm long. Corolla pale yellow when dry, protruding from calyx; standard ovate, ca. 5 mm long, ca. 3 mm wide, rotund at apex, with

two pulvinate callosities at base on abaxial surface, appressed with long hairs at the middle on adaxial surface, claw ca. 0.5 mm long; wings oblong, ca. 4 mm long, ca. 1.5 mm wide, with laminate corrugations at middle; keel-petals as long as standard, ca. 3 mm wide, incurved above middle, contracted into beak until apex, beak incurved, with hairs at base of middle part on outside, ciliate along margin; stamens 10, anthers dimorphic; ovary sessile, ca. 3 mm long, style incurved, ca. 3.5 mm long, pilose, stigma with hairs. Pods glabrous, ellipsoid, 6–8 mm long, 4–4.5 mm wide, with short beaks.

The specific epithet of the new species is derived from the locality where it was collected.

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姜 彦成^a, 朱 相雲^b, 杜 玉芬^b, 大橋広好^c: 中国浙江省産マメ科タヌキマメ属の1新種

中国からは40種のタヌキマメ属が知られている。ここに記載した1種は図に示すように、非常に小形で、高さ6–12 cm、長楕円形の1小葉をつけ、托葉を欠き、総状花序に少数の花をつけ、果実は楕円体である。浙江省天台で1928年に採集された

標本に基づく。

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